Approval Package for:

Application Number: 019462, S027

Trade Name: PEPCID TABLETS

Generic Name: FAMOTIDINE

Sponsor: MERCK RESEARCH LABORATORIES

Approval Date: 03/18/99

INDICATION(s): SHORT TERM TREATMENT OF ACTIVE DUODENAL ULCER

APPLICATION: 019462, S027

CONTENTS

	Included	Pending Completion	Not Prepared	Not Required
Approval Letter	\mathbf{X}			
Tenative Approval Letter				X
Approvable Letter				X
Printed Labeling				X
Medical Review(s)	\mathbf{X}			
Chemistry Review(s)				X
EA/FONSI				X
Pharmacology Review(s)				X
Statistical Review(s)				X
Microbiology Review(s)				X
Clinical Pharmacology Biopharmaceutics Review(s)				X
Bioequivalence Review(s)			ran Africa, a delica	X
Administrative/ Correspondence Document(s)	X			

Application Number: 019462, S027

APPROVAL LETTER

NDA 19-462/S-027 NDA 19-527/S-020 NDA 20-752/S-002

Merck Research Laboratories Attention: Michelle W. Kloss, Ph.D. P.O. Box 4, BLA-20 West Point, PA 19486-0004

MAR 1 8 1999

Dear Dr. Kloss:

Please refer to your supplemental new drug applications dated January 27, 1999, received January 28, 1999, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Pepcid® (famotidine) Tablets and Pepcid® (famotidine) for Oral Suspension, and Pepcid RPD™ (famotidine) Orally Disintegrating Tablets.

We acknowledge receipt of your correspondence dated February 5, 1999.

These supplements provide for the addition of the following contraindication statement to the end of the CONTRAINDICATIONS section of the package insert: "Cross sensitivity in this class of compounds has been observed. Therefore, PEPCID should not be administered to patients with a history of hypersensitivity to other H₂-receptor antagonists."

We have completed the review of these supplemental applications and have concluded that adequate information has been presented to demonstrate that the drug products are safe and effective for use as recommended in the submitted final printed labeling (package insert submitted January 27, 1999). Accordingly, these supplemental applications are approved effective on the date of this letter.

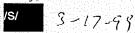
If a letter communicating important information about these drug products (i.e., a "Dear Health Care Practitioner" letter) is issued to physicians and others responsible for patient care, we request that you submit a copy of the letter to these NDAs and a copy to the following address:

MEDWATCH, HF-2 FDA 5600 Fishers Lane Rockville, MD 20857

We remind you that you must comply with the requirements for an approved NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, contact Michael Folkendt, Regulatory Project Manager, at (301) 827-1602

Sincerely,



Lilia Talarico, M.D.
Director
Division of Gastrointestinal and
Coagulation Drug Products
Office of Drug Evaluation III
Center for Drug Evaluation and Research

APPLICATION NUMBER: 019462, S027

MEDICAL REVIEW(S)

DIVISION OF GASTROINTESTINAL AND COAGULATION DRUG PRODUCTS MEDICAL OFFICER'S REVIEW

NDA:

19-462 (SLR027);

19-510 (SLR026);

19-527 (SLR020);

20-249 (SLR009);

-- 20-752 (SLR002)

Sponsor:

Merck Research Laboratories

Drug name:

PEPCID™ (famotidine) Tablets, Injection, Oral Suspension,

MAR - 3 1999

Injection Premixed, and Orally Disintegrating Tablets

Date submitted:

January 27, 1999

Date Received:

January 28, 1998

Review completed:

March 2, 1999

Reviewer:

Kathy M. Robie-Suh, M.D., Ph.D.

Among the H_2 -receptor antagonists, cross-reactivity with regard to hypersensitivity has been seen in some patients. (See FDA Division of OTC Drug Products review, "Cross-Hypersensitivity Warnings for the OTC H2-Blocker Drug Class" (dated 2/24/99)). Overthe-counter H_2 -receptor antagonist products (acid reducers) are being requested to include in the product labeling an allergy warning indicating that cross-sensitivity may exist among the H_2 -receptor antagonists. The sponsor has revised the labeling for its OTC famotidine products accordingly.

In this submission the sponsor proposes to revise the CONTRAINDICATIONS section of the package circular for the famotidine prescription drug products to provide labeling consistency between famotidine OTC and prescription products. The sponsor proposes adding the following to the CONTRAINDICATIONS section:

DRAFT LABELING

The application also includes a few minor editorial and formatting changes.

These changes are being made as a Changes-Being-Effected supplemental application to the above cited NDAs.

NDA 19-462; 19-510; 19-527; 20-249; 20-752 Page 2

Also, the sponsor requests that the Agency provide to Merck & Co. copies of the reports of cross-sensitivity.

Reviewer's Comments and Recommendations:

The sponsor's proposed labeling revision is acceptable. I recommend that this application be approved.

The sponsor should be provided with the 6 cases of cross-hypersensitivity reactions identified in the 2/25/99 OTC review cited above.

cc: NDA 19-462; 19-510; 19-527; 20-249; 3-3-99 20-752 HFD-180 HFD-180/LTalarico HFD-180/HGallo-Torres HFD-180/KRobie-Suh HFD-181/MFolkendt HFD-180/JChoudary HFD-180/EDuffy f/t 3/3/99 jgw N/19462903.0KR

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Kathy M. Robje-Suh, M.D., Ph.D. '

3/3/99

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MERCK & CO., INC. West Point, PA 19486, USA

PEPCID®

(FAMOTIDINE) TABLETS

PEPCID®

(FAMOTIDINE) FOR ORAL SUSPENSION

PEPCID RPD™

(FAMOTIDINE) ORALLY DISINTEGRATING

DESCRIPTION

The active ingredient in PEPCID' (famotidine) is a histamin Hy-receptor antagonist. Famotidine is N'-laminosulfonyii-II[2-[(diaminomethylenejamino]-4-thiazolyi]methyl)itiolor paninidamide. The empirical formula of lamolidine is CaH₁N,O₂S₃ and its molecular weight is 337:43. Its structural formula is:

Farnotidine is a white to pale yellow crystalline compound that is freely soluble in glacial acetic acid, slightly soluble in methanol, very slightly soluble in water, and practically insoluble in ethanol.

memanol, very sugarny shipper in water, and practically insolution in thankel.

Each tablet for trail administration contains either 20 mg or a 0 mg of amoltidine and the following inactive inpredients hydroxypropyl epitalose, bydroxypropyl methylectilutose, renoxides, magnesium stearate, mercorystalline cellutose, comstarch, talc, and thanking thomas Tablet for orall administration contains wither 20 mg or 40 mg of tamotidine and the following inective ingredients, aspartame, mini flavor, gelativi, manifol, red ferric oxide, and santhail guint.

Each 5 mL of the oral suspension when prepared as directed contains 40 mg of tamotidine and the following inactive ingredients: contains 40 mg of tamotidine and the following inactive ingredients: circin acid, flavors, microcrystalline estilutose and cardensistic circin acid, flavors, microcrystalline estilutose, sodium methyparaden 0.1%, and sodium propylgaraden 0.1%, sodium methyparaden 0.1%, and sodium propylgaraden 0.02%.

CLINICAL PHARMACOLOGY IN ADULTS

GI Effects

OF Errects
PEPCID is a competitive inhibitor of histamine Hi-receptors. The primary clinically important pharmacologic activity of PEPCID is inhibition of gastric secretion. Both the acid concentration and volume of gastric secretion are suppressed by PEPCID, while changes in pebsin secretion are proportional to volume output.

PEPCID, while changes in person secretion are proportional to volume output.

In normal volunteers and hypersectators, PEPCID inhibited basal and nocturnal gastine secretion, as well as secretion simulated by food and neetigastrin. After oral administration, the onset of the antiscorretory effect occurred within one hour; the maximum effect was dose-dependent, occurring within one to three hours. Duration of inhibition of secretion by doses of 20 and 40 mg was 10 to 12 hours.

Single evening oral doses of 20 and 40 mg inhibited basal and nocturnal seid secretion in all subjects; mean noccurring gastric acid secretion was inhibited by 96% and 94%, respectively, for a period of at least 11 hours. The same doses given in the morning suppressed lood-stimulated acid secretion in all subjects. The mean suppression was 16% and 94%, respectively, 31 to 5 hours after administration, in some subjects was disamated within 6-8 hours. There was no cumulative effect with repeated doses. The nocturnal impagation of was raised by evening doses of 20 and 40 mg of EEPCID to mean subjects who received the 20 mg dose, however, the amissocretory affect was disamated within 6-8 hours. There was no cumulative effect with repeated doses. The nocturnal impagation of was raised by evening doses of 20 and 40 mg of EEPCID to mean values of 5.0 and 6.4 inspectively. When PEPCID was prived to about 5. PEPCID had little or no effect on fashing or nostinandial serung astrin levels (Sastine emptying and exocrine pancreait function were not affected by PEPCID.)

Other Effects
Systemic effects of PEPCID in the CNS, cardiovascular, respiratory of endocrine systems were not noted in climical pharmacology studies. Also, no antiandrogenic effects were noted, (See ADVERSE REACTIONS,) Serum horimone levels, including projecting, consolicity control, throtoking (1), and testosterone, were not altered offer treatment with PEPCID.

Registered trademark of MERCK & CO. Inc. COPYRIGHT & MERCK & CO., Inc., 1986, 1986, 1991, 1995, 1996

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PEPCID* (Inmovidine) Tablets
PEPCID* (famourdine) for Oral Suspensive
PEPCID RPD** (famourdine) Drain Disintegrating Tablets

Pharmacolimeres

Per Cibis incombletely ansiched. The bloavaliability of cid does is 40-455, PEPCID Tables PEPCID to Oral Susmensie and REPCID RPD Orally Distributions in Better are investingly lent. Bloavalability may be suprive increased by food of slightly decreased by analogis inswers, these efficients are no clinical consequence. PEPCID undergoes minimal first no clinical consequence of PEPCID undergoes minimal first notations. Plasma levers after minimal does are similar hidrage after single ooses. Fifteen to 20 is 0.6 PEPCID in Hisma is protein bound. PEPCID has an elemination half life of PEPCID in minimal material pasems busines. Plenal clearance is 250-456 millioni, material pasems busines expended by mail set of 5 for an intravenous does are recovered in the unimal sunchanges compound. The only metabolic elemination and such analogic planes with the clinical pasems business clearance compound. The only metabolic elemination mail life of PEPCID in patients well-severe real insufficiency, i.e., creatining declarance less than 10 millionin, the elimination half-life of PEPCID. In patients well-severe real insufficiency, i.e., creatining data and a discontinuous planes in a discontinuous planes. PePCID and sextend 20 hours and adjustment of dose or dosing intervals may be severed 20 hours and adjustment of dose or dosing intervals may be severed. Per hours and adjustment of these are no titing as significant dose in ederly bottents, there are no titing as significant dose.

In elderly potients, there are no illinearly significant op-related changes in the pharmacokinetics of PEPCID

Clinical Studies

Duadenal Ucer In Audition of Gubbe band study in outstations with a U.S. multicenter, double-band study in outstations with endoscriptcally confirmed duodenal elect or ally administrated PEPCID was compared to placebe. As shown in Taute 17 or of patients realized with PEPCID 40 mg his were healed as

Table 1
Outpatients with Endoscopically
Confirmed Healed Duggenal Ulreis
PEPCID PEPCID PLANNING
40 mg h.s. 20 mg b.i.d. h.s.
(N = 89) $(N = 84)$ $(N = 97)$
32% 38", 1 17",
**70% 67% 31%

Statistically significantly different than process to 0.000 Statistically significantly different may practice to solve. Patients not healed by week 4 were continued in the study. By week 8, 83% of patients treated with practice. The incidence of uter healing with PEFCID was significantly inglier than with placebo at each time point based on proportion of endoscont studies than the properties of the proportion of endoscont studies are the properties of the propert

placebo at each time point based on proportion of endoscopic cally confirmed healed ulicers. In this study, time to relief of daytime and nocurrial pain was significantly shorter for patients receiving PEPCID than for patients receiving placebo; patients receiving PEPCID also took less antacid than the patients receiving placebo.

for Datients televing planations receiving placebo.
Lang Term Maintenance
Treatment of Diodenal Ulican.
PEPCID, 20 mg to 3, h.s. was compared to placebo h.s. as maintenance therapy in two double blind, multicenter studies of patients with endoscopically confirmed healed fluodenal ulicars, in the U.S. study the observed idear incidence within 12 months in patients treated with placebo was 2.4 times greater than in the patients treated with PEPCID. The 89 patients treated with PEPCID and a comulative observed ulicer incidence of 23,4% compared to an observed ulicer incidence of 56,6% in the 89 patients receiving placebo in 0,011. These results were confirmed in an international study when the carmidative observed ulicer incidence within 12 months in the 301 patients treated with PEPCID was 35,7%, compared to an incidence of 75,5% in the 325 patients treated with placebo (p.0.01).

Gastine Ulses.

Gastine Ulses.

In both a U.S. and an international multicentes disuble-blind study in patients with endoscopically confirmed active beinging gastine user, orally administrated PEPCID. 40 mg h.s., was compared to piaceboth is. Antaucits were permitted during the studies. But it is a procession of the studies in the studies of the summation was not significantly different between the PEPCID and biaceting groups. As shown in Table 2, the modern of piace healing for opouts counted as unheated, with PEPCID was scatiscally semificantly better than placebilist where is and B in the U.S. study, and at weeks 4,6 and B in the international study. based on the number of vicers that healed, confirmed by endoscopy.

Table 2.

Table 2.

Table 2.

Patients with Endoscopically	
Confirmed Healed Gastric Ulcers	
U.S. Study International	Signly
PEPCID Placeno PEPCID I	hacaba
40 mg n.s. h.s. 40 mg h.s.	h.s :
(N=74) (N=75, (N=149)	N= 1451
Week 4 45% 39% 47%	31%
Week 6 165% 43% Ken	46
Weak 8 78%, 54% 80%	54%
Statistically significant, and	3436

Statistically, significantly better than placebo in 0.05, 0.0.61

Time to complete relief of daytime and liightume pain was statistically significantly shorter for patients receiving FEPCID than for patients receiving placebic however, in neither study was there a statistically so infrant difference in the proportion of patients whose pain was relieved by the end of the study (week 8).

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PEPCIDS (famotione) Tablets
PEPCID (famotione) for Crai Suspension
PEPCID RPD¹⁸ framotidine) Orally Disintegrating Tablets

Gastroesponageal Reflux Disease (CER).
Orally administered PEPCID was combarded to biacebe in a U.S. study that enrolled bateris win symptoms of GERD and wilhout encoded procesoppe evidence of energian or differentiation of the especiation o

Table 3

٠,			٠			200	1.33	WI 5	Y.T.	Month)	30 U	W.C.D.	8	
						Pr	PCID	de.		pepo	in.		. 5,000	
						20 m	g bu	3		40 mg			E acu	ikis.
						(Na	154	11.		IN-1			1/3/2	
V	ve	ė	6			14 PA		· .		89				
										. 021	4.54		62	
	Ċ,	Ç	٥ŀ	1.5	Prac	eon .	13.							

ci-CO vs Placeds. By the attention is symptomatic surcess, was observed in a greater percentage of patients taking PEPCID 20 mg build (compared to place bolie 0.00 m). Symptomatic improvement and pealingh of endes committees a symptomatic improvement and pealingh of endes committees of sistent and usceration were studied in two adoptions attains. Healing was delined as complete expollation of all ensembles of decreations visible with endoscopy. The U.S. study comparing PEPCID 40 mg p.o. bit in place to an PEPCID 70 mg bit, bit is containing for PEPCID 40 mg bit, at weeks 6 and 12 (3 apin 4).

Table 4

a andoscobic H	eaung : U.S. Studi	
PEPCIO	PEPCIN	
10 mg b.i.a.	20.ma.b.1.d.	Piaceno
- 1N-127	(N=176)	(Ne65)
Week 6 49	32	18
Work 12 59 ""	54	20
Francial Street Practices		1000

7 mul 21 vs Miaceho 10:0 03 vs PEPCIO 20 Mig b. i o 10:0 031 vs PEPCIO 20 mig b. i o

As compared to placebo, patients who received 955CID had faster fellef of deviume and nightime healthum and a greater percentiage of batteris severences compare relief of inputure Feartburn. These differences were statistically significant.

can:
In the international study, when PEPCID 40 mg b.n. bird.
was compared to ranitidine 150 mg b.n. bird. In statistically
was compared to ranitidine 150 mg b.n. bird. In statistically
significantly greater percentage of healing-was observed with
PEPCID 40 mg b.n. di tweek 12 (Table 5). There was nowever,
no agnificant difference arrung treatments in symptom relief.

Table 5 La Endoscopic Heging - International Study

PEPCID	PEPCIO	Banifidine
30 tnn 3.1.0	20 mg b (.d	150 ma b.i.d.
(N=175)	(N±93)	. 4N×1721
Weak is 18	52	42
Week 12 71341	68	60
THE A DESAR BLACK THE STREET	The second of the Court of the Second	

Fisher Obser Na numer 150 mg but.

Pathological Hypersecretory Conditions (e.g., Zellmatil: Easan Syncrome, Multiple Endocrine Arenemas:

in studies of patients with pathological hypersecretory contitions such as Zellinger-Eisson Syndrome with or without multiple endocrine adenomas, PEPCID significantly inhibited mastine act secretion and controlled associated symptoms. Orally administered doses from 20 to 150 mg q.5.m manochamet basel acid secretor below 10 mg qr.5.m mail doses were thraided to the individual patient need and subsequent adustments were necessary with time in some factorist PEPCID was well follerated at these high dose levels for one onged periods (greater than 12 morths) in right hazards and here were no bases reported of gynecomastix increased one factorist respectively.

CLINICAL PHARMACOLOGY IN PEDIATRIC PATIENTS

CLINICAL PHARMACOLOGY IN PEDIATRIC PATIENTS

Pharmacokinetics

Table 6: presents pharmacokinetic data from published studies of small numbers of pediatric patients given famotishine intravenously. Age unrefer the trivier IAUCs are normalized to a dose of 0.5 mg/ks 1V, for pediatric patients and compared with an extrapolated 40 mg intravenously dose in adults restrationable patients. Some CV adult dose in 1999.

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Tillyesik		en i decembro assertado Co	10 kg)	3.78 ± 2.86
11.75 yes	N. 61 120 - 330	010 - 014	15:04	7.344
48,015	and the same of th		33.82	283,059
"National and "Near you	Poresen ed as means	E Sib uniess mit-	cated otherwise	

Values of pharmacokinelic parameters for perhain, battents, ages 1-15 years, are comparable to those obtained for adults.

PEPCID PEPCID: PEPCID RPD



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PEPCID.

7825031 PEPCID[®] Hamoudinei Tablets

PEPCID® (famoridine) for Oral Suspension PEPCID RPD ** (famoridine) Orally Disintegrating Tablets:

Bioavailability studies of 8 pediatric patients (11-15 years o of agent shower is made and a pediatric patients (11-15 years of agent shower is a mean or all binawailability of 0.5 compared it adult values of 0.42 to 0.43. Or all doses of 0.5 mg, big activeive an AUC of 550 c. 50 ng hirm, in pediatric patients 11-15 years of age compared to 482 ± 181 ng-hrmL in adults treated with 40 ng ng-big.

so my craity.

Pharmacodynamics.

Pharmacodynamics of famolidine were evaluated in Sirediatic patients. 2-13 years of age using the sigmoid E_{ms}, model These data suggest that the relationship between serum concentration of famolidine and gastic acid suppression is similar to hat observed in one study of adults (Table 7).

		ibie 7			
				en this	
				ECOID	

Pediatric Patients 26 ± 13 Data from one study

al healthy acust subjects

bl adult panents with upper Gl bleeding Serum concentration of familitative associated with 50% maximum gastric acid reduction, values are presented as means 4.50.

Four outlished studies (Table 8) examined the effect of famoutding on gastic per and duration of acid superession in pediating patients. While each study had a different dosign, acid suppression cata over time are summarized as follows:

	Table 8	12 EE	
Dosaue Route		Number	of Patier:
	gastric pH 53.5 fer	A - A	5
Ø35€	8.7 ± 4.7 hours		
0.4-0.8 mg/kg (V.	gastne eH 54 to 3-9 hours		15
0.5 mg/kg, shagie 17.70	a >2 ph una increase		9
dose	abnya baseine in gasino		34000
	oH for >8 hours		
0.5 mg/kg b.i.d 1.V.	gastric pH >5 for	4 11 14	4
engligger en New City	13.5 : 1 3 hours		
0.5 mg/kg bild oral.	gastric bH 15 loi		4
	E 5 - Y 15 to 1		

*values reported in pure shed literation

INDICATIONS AND USAGE

Steams 50.

INDICATIONS AND USAGE

PEPCID is indicated in.

1. Short term treatment of active duodenativice: Most adult talents head within 4 weeks; there is rarely reason to use PEPCID at full dosage for longer than 6 to 8 weeks. Studies have not assessed the safety of famotism in uncomplicated active duodenative for periods of more than eight weeks.

2. Maintenance therapy for duodenative uter. Controlled studies in adults have not extended beyond one year.

3. Short term treatment of active beinging gastric uter? Most adult patients heal within 6 weeks. Studies have not assessed the safety or ethicacy of famotidine in uncomplicated active beinging gastric uter? Most adult patients heal within 6 weeks. Studies have not assessed the safety or ethicacy of famotidine in uncomplicated active beinging gastric wicer for periods of more than 8 weeks.

4. Short term treatment of gastroesophageal reflux diseases (GERIO, PEPCIC) is indicated for the short term treatment of castloness that is the full state of GERIO PEPCID is also indicated for the short term treatment of easibnaghis due to GERIO including erosive or uterrative disease diagnosed by endoscopy (see CLINICAL PHARMACCUOGY IN ADULTS. Clinical Studies).

5. Treatment of pathological hypersecretory conditions (e.g., Zollinger-Eision) Syndrome, multiple endocrine adenomas) (see CLINICAL PHARMACOLOGY IN ADULTS. Clinical Studies).

Hypersensitivity to any component of these products. Cross sensitivity in its class of compounds has been observed. Therefore, PGPCID Should not be administered to patients with a history of hypersensitivity to other Hydeceptor avange. nists.

General

Symptomatic response to therapy with PEPCID itoes not preclude the presence of gashic manignancy.

Patients with Severe Renal Insufficiency.

Longer intervals between doses or lower doses may need to be used in patients with severe renal insufficiency (creating clearance of one-min) to adjust for the longer atminiation half-life of famoutdine. (See CLINICAL PHARMACOLOGY IN ADULTS and DOSAGE AND ADMINISTRATION.) However, Currently, no drug-related toxicity has been found with high plasma concentrations of famoutdine.

plasma concentrations of farmon-time. Information for Patients. The patients should be instructed to shake the oral suspension vigorously for 5-10 seconds prior to each use. Unused constituted oral suspensions mould be discarded after 30 day—Patients should be instructed to leave the PEPCID PPO Orally Disintegrating Tableton the unopened package until the time of use. Patients should then open the tablet bitser pack with dry hainus, place the tablet on the tongue to dissolve and to swallowed with salva. No water is needed for taking the tablet.

PEPCION (famousing Tablets)
PEPCION (famousing) or Order Scapension
PEPCIO RPD Mitamotion or Order Chamber Street

Phényikétobures - Phényikétébure, patiems isadas, pe nitorned that PEPCI2 RSD contoes phenyiatahue 105 eo per 20 mai pratik pismografina tabet and 2 10 mg her 40 mg oraliv dismlegrating tabét. Drug Interactions

Driad interactions. No driag interactions have specified interactions in a minimum progress and interactions to amount in the progress and interpretation of sponticant interference were into depreciation. It composition in the appropriate of which progress metabolized by the broads involved entirems in a factorized PASS system. Compositions tested to man includes with the finite the progress of an involved of the progress of t extraction has been tested and no significant effects buy-

been found, and the familiar in the familiar of the familiar o

oent an undagenic enect was observed.

To studies with rats given oratiooses of up to 2000 mp kg day, or intravenous doses of up to 2000 mp kg day, remitty, and reproductive performance were not affected.

or interest.

Prepriate the performance were income and performed in rate and rate.

Prepriate Category 8.

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In its at oral doses of up to 2007 milks and rate.

In its analysis of up to 2007 milks and rate and particles.

In harm to the fetus due to EPECID While no circuit belonsed effects have been observed, sporance abstrains occurring only in mothers disclaimed marked decreased food intake were seen in some at beins at oral doses of 200 milks oralization of the controlled studies in prepriam women documes the usual human dose or higher. There are, nowever in adequate or well-controlled studies in prepriam women focusive animal reproductive studies are not always preur, tive of human response, this drug should be used during prequired.

nancy only if clearly needed.

Nussing Methors.

Studies performed in lactionity rate have shown that lamost time is secreted into breast milk. Itansient growth depression was observed in young rates suckling from mothers treated with materinatoxic dosses of at least 500 times the usual homian dose. Famodine is detectable in human milk, Because of the potential for serious adverse reactions in milking infanis from PEPCIC. A decision should be made whether to discontinuouslying or discontinue the drug, taking into account the importance of the drug to the mother.

Use of FEPCID in petitative potions 1-16 years of ago is surported by evidence from adequate and well-controlled stones of PEPCID in adults, and by the following studies in controlling patients in published studies in small numbers of octifarinalisms, in published studies in small numbers of octifarinalisms, in published studies in small numbers of octifarinalisms, in patients 11-15 years of ago, to that seen in adults, in pediatric patients 11-15 years of ago, coal doses of 0.5 might were associated with a mean area under the curve IAUCI similar to that seen in adults treated under the curve IAUCI similar to that seen adults treated orizing with 40 mg. Similarly, in pediatric patients 11-15 years of ago, intravenous doses of 0.5 mighty were associated with a ago, intravenous doses of 0.5 mighty were associated with a general value of the period of the perio Use of PEPCID in pediatric patients 1-16 years of acress sur

pediatric patients 1-16 years of age as follows:

Peartwider 0.5 mg/kg/day p.o. al bediume or divided hild.

Unto 40 mg/day.

Gastroesobhagea Refusia Discass with its without esciptingitis incliniting crossors and utcerations 1.0 mg/kg/day p.o.

divided bild. up to 40 mg/bl. 18.

While published uncontrolled studies suggest effectiveness of famoutions in the treatment of gastroecophageal reflux des
asse and centre utleit, data in producing patients are insulfacional establish percent escribins and dose should be individual surface of the controlled discount of the controlled of the controlled discount of the controlled of escribageal) and endoscopy. Published uncontrolled clinical studies in pediatric powers employed doses until the individual controlled and endoscopy. Published uncontrolled clinical studies in pediatric powers to employed doses until the individual controlled and endoscopy. Published uncontrolled and en

Use in Elder's Patients.

No dosage adjustment is required based on ago size CEMI.

ALPHARMACOLOGY IN ADULTS, Pharmico-unidies, Liveage adjustment in the case of severe repairing and monitory before case.

ADVENSE REACTIONS

The adverse reactions listed below have been reported thirting tomestic and infernational clinical trails in approximately 2500 matterns. In those controlled clinical trails in which PEPCID Tablests were compared to placebo, the modeling of adverse experiences in the group which received PEPCID Tables.

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PEPCID* (famotitine) Tablets
PEPCID* (famotitine) for Oral Suspension
PEPCID RPD** (famotitine) Orally Distinguishing Tablets

ers, 40 mg at bedtime, was similar to that in the placeho

tets, 40 mg at bedtime, was similar to that in the practice group.

The following adverse reactions have been reported to occur in more than 1% of patients on therapy with PEPCID in controller chinical trials, and may be causally related to the drug, headache (4,7%), dizziness (1,2%), constipation (1,2%) and diarrha (1,7%).

The following other adverse reactions have been reported infrequently in clinical trials or since the cruip was marketed. The relationship to therapy with PEPCID has been unclear in many cases. Within each category the adverse reactions are listed in order of decreasing severity.

Body as a Whole Tever, astheria, fatigue.

Cardiovascular, arrhythmia, AV block, palpitation.

Gasticinessinals challestant, jaundice, liver enzyme abnormalities, vomiting, naused, addiminal disconition, anorexia, dry mount.

maintes, vornaurg, nausau, munder de diverburn. Hematologici fare cases of agranulocytosis, pancytopenia. Heuratologici fare cases of agranulocytosis, pancytopenia. Hypersansinvity, anaphylaxis, anglioedema, orbital or facial edema unicana, ash, compinctival injection. Musculoskeletal: musculoskeletal pain including muscls cramps, athra gia. Nervous SystemPsychiatric, grand mal santure, poxenis institutionals, which work reversible in cases for which follows to was costoned, including hallucinations, confusion, agriation, depression, anyely, decreased librido, paresthesia, insomnia, somniènce.

Respiratory: pronchospasm Skin: toxic epidermal nec-plysis ivery rarel, alopeda, ache,

Skin tone epidermal necrolvsis (very rare), alopedia, ache, prurius, my skin, flushing. Special Senses: funntus, taste disorder. Other: rare cases of impotence and rare cases of gynecomastia have been reported; however, in controlled clinical trials, the incidences were not greater than those seen with historia.

The adverse reactions reported for PEPCID Tablets ma becur with PEPCID for Oral Suspension and PEPCID RPD Orally Disintegrating Tablets.

OVERDOSAGE

There is no experience to date with deliberate overdosage. Their is no experience to date with deliberate overdosage. Oral dissess of up to 640 mpiday have been given to adult patients with pathological inversed error conditions with no serious adverse effects. In the event of overdosage, treatment should be removed from the gastrointestinal tract, the patient should be impostored, and supportive therapy should be employed.

employed.

The oral LDs of fimoticing in male and female rats and mice was greater than 300c mg/kg and the minimum lethal-acute oral dose in dogs exceeded 2000 mg/kg. Famotidine did not produce over effects a high oral doses in mice, rats cats and toose, but induced significant annotexia and growth depression in rabbits starting with 200 mg/kgd, and ly The intravenous LDs of famotidine for mice and rats ranged from 154-553 mg/kg and the minimum lethal single LV dose in dogs was approximately 300 mg/kg. Signs of acute intoxication in LV treated dogs were emesis, resites ness, pallor of mucous membranes or redriess of mouth and ears, hypotension, tachycardia and octilapse.

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION Durateral Utler.

Acute Therapy: The recommended adult oral dosage for active fluodenal ulcer is 40 mg once a day at beditime. Most batients heal within 4 weeks: there is rarely reason to use PEPCID at full dosage for longer than 6 to 8 weeks. A regiment of 20 mg b. .d. is also affective.

Maintenance Therapy: The recommended adult oral dose is 20 mg once a day at beditime.

Benign Gastric Ulcer.
Acute Therapy: The recommended adult bial desage for active benign gastric ulcer is 40 mg once a day at bedtime.

Gattresophageal Reliab Disease (GERD)

The recommender oral desage for treatment of adult patients with symptoms of GERD) 20 ng bird. For up to 6 weeks. The recommended oral desage for the treatment of adult patients with symptoms of GERD is 20 ng bird. For up to 6 weeks. The recommended oral desage for the treatment of adult patients with escondapils including arosisms and uccertaions and accompanying symptoms due to GERD is 20 or 40 ng bird for up to 12 weeks (see CUNICAL PHARMACOLOGY IN ADULTS Comean Studies).

Cosage for Pediatric Patients
See PRECAUTIONS, Pediatric Patients.
The shudes described in PRECAUTIONS, Pediatric Patients
suggest the following starting doses in pediatric patients 1-16
users of sem.

Peoble ulcer - 0.5 mg/kg/day p.b. at bedtime or divided b.i.d.

Gastroesophageal Rellux Dispase with or without esoph agitis including erosions and ulcerations -1.0 mg/kg/day p.o. divided b.i.d. up to 40 mg b.i.d.

divided bild, up to 40 mg bild. White published uncontrolled studies suggest effectiveness of famoutine in the treatment of gastroesoprageat reflux disease and peptic ulcer, data in perhatric patients are insufficient oestablish percent response with dose and duration of therapy. Therefore, treatment duration i initially based on adult duration recommendations; and dose should be individually cled based on clinical response and/or pH determination (passible of associated in clinical response and/or pH determination (passible of associated in clinical response and/or pt.) Published uncontrolled familiar that is the property of the period of the property of the period i or esponageal) and lendoscopy, Published uncontroller hical studies in pediatric patients have employed doses up

782803*
PEPCID* Hamotidine) Tablets
PEPCID* Hamotidine) For Oral Suspension
PEPCID RPD** Hamotidine) Orally Disintegrating Tablets

to 1 mg/kg/day for papite block and 2 mg/kg/day for GERD with or without exponagitis including croations and tilderal one. No pharmack nettic or pharmacodynamic onto a relivable able on pediatric patients under 1 year of age.

due on pedistric patients under 1 year of age. Pathningers. All weer servicions Conditions (e.g., 20 imper Elisson Syncrome, Multiple Endocrina Adenomys). The dosage of PEPCID in patients with bathorogical hypersecretory conditions varies with the individual catent. The recommended adult for al starting dose for pathological hypersecritory conditions (so Time 6 to 1) on the patients. Another starting dose may be required, Obses should be adjusted to individual patient needs and should continue as long as clinically indicated. Doses up to 160 mg tip 8 in have been additional lend to some adult patients with severe Zollinger Elisson Syndrome. Syndromn.

Oral Suspension PEPCID for Oral Suspension may be substituted for PEPCID PEPCID for Oral Suspension may be substituted for PEPCID for Oral Suspension may be substituted for PEPCID for Oral Suspension for Percentage of Percenta

Directions for Frenaing PEPCID for Oral Suspension Prepare suspension at time of dispensing, Slowin and 46 mt of Pruited Water. Shake vigorously for \$1.0 seconds intermediately after adding the water and immediately before

Stability of PEPCID for Oral Suspension
Unused constituted oral suspension should be discorded after 30 days.

Orally Disintegration Tables

Oralify Distintentating Tablets
PEPCID RPD Oralify Distintentating Tablets may be substituted for PEPCID Tablets in any of the above indications at the same recommended dosages.
PEPCID RPD Oralify Distintentating Tablets reported. Historication to the above the abov

Concomitant Use of Antacids

Amacids may be given concomitantly if needed.

Antacida may be given concomitantly if needed.

Dosage Autiustment for Patients with

Severe Penal insulficients

In adult nationals with severe renal insulficiency, i.e., with a

creatinine clearance less than 16 mUma, the elimination halflife of PEPCID may exceed 20 hours, reaching approximation

24 hours 1, a nuite oadients. Although no relationship of

adverse effects to high plasma levels has been established, to

avoid excess accumulation of the drug, the dose of PEPCID

may be reduced to 20 mg h.s. or the dosing interval may be

provinged to 36-48 nodis as indicated by the patient's coincal

response.

response.

Based on the comparison of pharmacokinesic parameters for PEPCID in adults and pediatric patients, dosage adults ment in pediatric patients with severe renal insufficiency. ment in pediatric pa should be considered.

HOW SUPPLIED

NO. \$195.5 — PEPCID Tablets. 20 mg, are deige colored. U-shaped film-coaled tablets coded MSD 963 on one side and PEPCID on the other. They are supplied as follows: NOC 0006 0963-31 unit of use bottles of 30 NDC 0006-0963-32 unit of use bottles of 100 NDC 0006-0963-58 unit of use bottles of 100 NDC 0006-0963-58 unit of use bottles of 100 NDC 0006-0963-58 unit dose package of 100 NDC 0006-0963-82 bottles of 10,000 NDC 0006-0963-87 bottles of 10,000 NDC 0006-0963-87 bottles of 10,000 NDC 0006-0963-72 carton of 25 UNIBLISTER* cards of 31 tablets care.

NDC 0006-0963-28 bottles of 10,000
NDC 0006-0963-72 carbon of 25 UNIBLISTER" cards of 31 tablets each
NDC 0006-0963-72 carbon of 25 UNIBLISTER" cards of 31 tablets each
NDC 0006-0963-72 carbon of 25 UNIBLISTER" cards of 31 NDC 0006-0964-8 on the other. They are supplied as follows
NDC 0006-0964-90 on the other. They are supplied as follows
NDC 0006-0964-90 on of use bottles of 30
NDC 0006-0964-90 on of use bottles of 100
NDC 0006-0964-90 on of use of us

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PEPCION stamptione (Tablets)
PEPCION stamptioner (as Graf Suspension PEPCIO PPC) in campbone (Oralls Ossintegrating Tablets)

Storage
Avoid storage of PEPCIC Tablets at temperatures above 40°C (144°F.
Store PEPCID RPD Orans Disintegrating Tablets below 30°C (E6°C).

(86° °). Avoid storage of the bowder for analysis ensign at temperatures above 40°C (104° f. After constitution start the suspension below 30°C (485° Disinct treezy. Discard unused suspension after 30 days).

PEPCID damotiques Tables and PEPCID tramendings for Oral Suspension are manufactured by

MERCK & CO., INC., West Point, PA 19436 USA

PEPCID RPD tramotigine: Orally Disintegrating Tabless are manufactured to:

MERCK & CO., INC., West Point, PA 19486, USA

By: Scherer EDS, Swindon, England and are Made in England

issued November 1998 Frontec in USA

APPLICATION NUMBER: 019462, S027

ADMINISTRATIVE/CORRESPONDENCE DOCUMENTS

Division of Gastrointestinal and Coagulation Drug Products

CONSUMER SAFETY OFFICER LABELING REVIEW

NDA number	Supplement number	Drug Name
19-462	SLR-027	Pepcid® (famotidine) Tablets
19-527	SLR-020	Pepcid® (famotidine) for Oral Suspension
(20-752)	SLR-002	Pepcid RPD TM (famotidine) Orally Disintegrating Tablets

Sponsor: Merck Research Laboratories

MAR 1 7 1999

Material Reviewed

Submission Date	Receipt Date	Item(s) Reviewed
January 27, 1999	January 28, 1999	Final Printed Labeling (FPL), ID # 7825031
February 5, 1999		Diskette (formatted labeling text in MS Word 97) Filename: 7825031.doc

Background

These supplements, submitted as Special Supplement – Changes Being Effected," provides for the addition of the following contraindication statement to the end of the CONTRAINDICATIONS section of the package insert:

"Cross sensitivity in this class of compounds has been observed. Therefore, PEPCID should not be administered to patients with a history of hypersensitivity to other H_2 -receptor antagonists."

The firm submitted these supplements to make the contraindication statement in the prescription package insert consistent with the recently required allergy warning statement for the nonprescription Pepcid AC® (famotidine) drug products labeling. This allergy warning statement, "Do not use if you are allergic to Pepcid AC® (famotidine) or other acid reducers," required by the Division of Over-The-Counter Drug Products, originated from the discovery of a number of Adverse Event reports suggesting cross-sensitivity within the class of H₂-receptor antagonist (see medical officers review dated 2/24/99 to NDA 20-325). The stated effective date for this change is "on or about July 1, 1999."

Review

All oral dosage forms of Pepcid® (famotidine) for prescription use share the same package insert. The submitted final printed labeling (FPL) for the package insert, identified as circular #7825031 (filename 7825031.doc), **Issued November 1998**, was compared to the approved labeling identified as circular #7825030, Issued August 1998 (acknowledged and retained on January 21, 1999 in NDAs 19-462/SLR-022, 19-527/SLR-016, and 20-752/SLR-001).

NDA 19-462/SLR-027 NDA 19-527/SLR-020 NDA 20-752/SLR-002 CSO Labeling Review Page 2

The following changes were made to the package insert:

4	
1	The statement DRAFT LABELING
	•
	was added to the end of the CONTRAINDICATIONS section.
	This change is the subject of these supplements and was found acceptable in the March
	table the subject of these supplements and was found acceptable in the March
3.4	3, 1999 Medical Officer's Review.

- 2. The first letter of the established name "famotidine" is changed from upper case to lower case throughout the labeling, except in the drug name title at the beginning of the labeling. This editorial change makes the established name more consistent with the convention used by the Agency and is acceptable.
- 3. The word is deleted from the forth paragraph of the DESCRIPTION section concerning the description of the orally disintegrating tablet dosage form. This change was made to make this paragraph editorially consistent with similar paragraphs concerning the description of the tablet and oral suspension dosage forms and is acceptable.
- 4. The national stock numbers (NSN) were removed from the HOW SUPPLIED section. These numbers were the "(6505 01 XXX XXXX)" under a number of NDC numbers and correspond to product codes (corresponding to the respective NDC number above it) used by the Veteran's Administration for the corresponding package configuration. Because, there are no regulatory requirements for the inclusion of these national stock numbers in the package insert, the deletion of these numbers is acceptable.
- 5. A space was added between "No." and the numbers "3553" and "3554" to correct a minor editorial formatting error.

Conclusions

The FPL identified as circular # 7825031, Issued November 1998, is acceptable. An approval letter should be issued to these supplements.

Regulatory Project Manager

NDA 19-462/S-027 NDA 19-510/S-026 NDA 19-527/S-020 NDA 20-249/S-009 NDA 20-752/S-002

MAR - 4 1999

Merck Research Laboratories Attention: Michelle W. Kloss, Ph.D. P.O. Box 4, BLA-20 West Point, PA 19486-0004

Dear Dr. Kloss:

We acknowledge receipt of your labeling supplemental applications submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for the following:

NDA Number	Supplement Number	Drug Name
19-462	S-027	Pepcid® (famotidine) Tablets
19-510	S-026	Pepcid® (famotidine) Injection
19-527	S-020	Pepcid® (famotidine) for Oral Suspension
20-249	S-009	Pepcid® (famotidine) Injection Premixed
20-752	S-002	Pepcid RPD™ (famotidine) Orally Disintigrating Tablets

Date of Supplements: January 27, 1999

Date of Receipt: January 28, 1999

These supplements propose to add the following contraindication statement to the end of the CONTRAINDICATIONS section of the package insert: "Cross sensitivity in this class of compounds has been observed. Therefore, PEPCID should not be administered to patients with a history of hypersensitivity to other H₂-receptor antagonists."

We note that you have submitted these supplements under 21 CFR 314.70(c), "Special Supplement - Changes Being Effected." Your submissions states that the implementation date for this change is on or before July 1, 1999.

Unless we notify you within 60 days of our receipt date that the applications are not sufficiently complete to permit a substantive review, these applications will be filed under section 505(b) of the Act on March 29, 1999 in accordance with 21 CFR 314.101(a).

NDA 19-462/S-027 NDA 19-510/S-026 NDA 19-527/S-020 NDA 20-249/S-009 NDA 20-752/S-002 Page 2

Please cite the application numbers listed above at the top of the first page of any communications concerning these applications. All communications concerning these supplemental applications should be addressed as follows:

U.S. Postal/Courier/Overnight Mail:

Food and Drug Administration
Center for Drug Evaluation and Research
Division of Gastrointestinal and Coagulation Drug Products, HFD-180
Attention: Division Document Room
5600 Fishers Lane
Rockville, Maryland 20857

If you have any questions, contact me at (301) 827-1602.

Sincerely,

Michael Folkendt

Regulatory Project Manager
Division of Gastrointestinal and
Coagulation Drug Products
Office of Drug Evaluation III

Center for Drug Evaluation and Research

cc:

Archival NDAs 19-462, 19-510, 19-527, 20-249, 20-752 HFD-180/Div. Files HFD-180/M.Folkendt DISTRICT OFFICE

Drafted by: mmf/March 4, 1999

final: 3/4/99

filename: 19462-S027-ACK.doc

SUPPLEMENT ACKNOWLEDGEMENT (AC)

NDA 19-510/S-026 NDA 20-249/S-009

Merck Research Laboratories Attention: Michelle W. Kloss, Ph.D. P.O. Box 4, BLA-20 West Point, PA 19486-0004

WAII 8 1999

Dear Dr. Kloss:

Please refer to your supplemental new drug applications dated January 27, 1999, received January 28, 1999, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Pepcid® (famotidine) Injection and Injection Premixed.

We acknowledge receipt of your correspondence dated February 5, 1999.

These supplements provide for the addition of the following contraindication statement to the end of the CONTRAINDICATIONS section of the package insert: "Cross sensitivity in this class of compounds has been observed. Therefore, PEPCID should not be administered to patients with a history of hypersensitivity to other H₂-receptor antagonists."

We have completed the review of these supplemental applications and have concluded that adequate information has been presented to demonstrate that the drug products are safe and effective for use as recommended in the submitted final printed labeling (package insert submitted January 27, 1999). Accordingly, these supplemental applications are approved effective on the date of this letter.

If a letter communicating important information about these drug products (i.e., a "Dear Health Care Practitioner" letter) is issued to physicians and others responsible for patient care, we request that you submit a copy of the letter to these NDAs and a copy to the following address:

MEDWATCH, HF-2 FDA 5600 Fishers Lane Rockville, MD 20857

We remind you that you must comply with the requirements for an approved NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, contact Michael Folkendt, Regulatory Project Manager, at (301) 827-1602

Sincerely.

(/S/) 3 - 1/9 - 29 Lilia Talarico, M.D.

Director

Division of Gastrointestinal and Coagulation Drug Products Office of Drug Evaluation III Center for Drug Evaluation and Research

Division of Gastrointestinal and Coagulation Drug Products

CONSUMER SAFETY OFFICER LABELING REVIEW

	Supplement number	Drug Name	
 19-510	SLR-026	Pepcid® (famotidine) Injection	
20-249		Pepcid® (famotidine) Injection Premixed	0.00
		The state of the	

Sponsor: Merck Research Laboratories

MAR 1 7 1999

Material Reviewed

Submission Date R	eceipt Date	Item(s) Reviewed
January 27, 1999 Janu	uary 28, 1999	Final Printed Labeling (FPL), ID # 9042508
February 5, 1999 Feb	ruary 8 1999	Diskette (formatted labeling text in MS Word 97) Filename: 9042508.doc

Background

These supplements, submitted as Special Supplement – Changes Being Effected," provides for the addition of the following contraindication statement to the end of the CONTRAINDICATIONS section of the package insert:

DRAFT LABELING

The firm submitted these supplements to make the contraindication statement in the prescription package insert consistent with the recently required allergy warning statement for the nonprescription Pepcid AC® (famotidine) drug products labeling. This allergy warning statement, "Do not use if you are allergic to Pepcid AC® (famotidine) or other acid reducers," required by the Division of Over-The-Counter Drug Products, originated from the discovery of a number of Adverse Event reports suggesting cross-sensitivity within the class of H₂-receptor antagonist (see medical officers review dated 2/24/99 to NDA 20-325). The stated effective date for this change is "on or about July 1, 1999."

Review

All parenteral dosage forms of Pepcid³ (famotidine) for prescription use share the same package insert. The submitted final printed labeling (FPL) for the package insert, identified as circular # 9042508 (filename 9042508.doc), Issued November 1998, was compared to the approved

NDA 19-510/SLR-026 NDA 20-249/SLR-009 CSO Labeling Review Page 2

labeling identified as circular # 9042507, Issued August 1998 (acknowledged and retained on January 20, 1999 in NDAs 19-510/SLR-020 and 20-249/SLR-007).

The following changes were made to the package insert:

1. The statement	
The statement	
DRAFT LABELING	

was added to the end of the CONTRAINDICATIONS section. This change is the subject of these supplements and was found acceptable in the March 3, 1999, Medical Officer's Review.

2. The secondary control number located either immediately below or after the circular ID # has been changed from "07-19-04-689" to "07-19-04-822." According to the firm, this control number is for use by Baxter Healthcare Corporation who manufactures the premixed injection formulation. This change does not change the content of the labeling concerning the safe use of the drug and is acceptable.

3.	DRAFT LABELING		
	adds the recently		This change
	adds the recently approved oral dosage form to consistent with the similar statement in the pack. This change is acceptable.	this statement and ma	kes this statemen
	This change is acceptable.	age insert for the oral	dosage forms.

4. In the DOSAGE AND ADMINISTRATION section:

- 5. Immediately below the title of the "Dosage for Pediatric Patients" subsection, the phrase " has been indented. This editorial revision is acceptable.
- 6. The period at the end of the parenthetical phrase "(See HOW SUPPLIED, Storage.)" in the "PEPCID Injection Premixed" subsection has been moved to inside the closing parenthèses DRAFT LABELING This editorial revision corrects a minor punctuation error and is acceptable.
- 7. The national stock numbers (NSN) were removed from the HOW SUPPLIED section. These numbers were the "(6505 01 XXX XXXX)" under a number of NDC numbers and correspond to product codes (corresponding to the respective NDC number above it) used by the Veteran's Administration for the corresponding package configuration. Because, there

NDA 19-510/SLR-026 NDA 20-249/SLR-009 CSO Labeling Review Page 3

are no regulatory requirements for the inclusion of these national stock numbers in the package insert, the deletion of these numbers is acceptable.

Conclusions

The FPL identified as circular # 9042508, Issued November 1998, is acceptable. An approval letter should be issued to these supplements.

| \S | 3 | 7 | 99 |
| Regulatory Project Manager | 3-17-97

cc:

Archival NDA 19-510 NDA 20-249 HFD-180/Div. Files for NDAs 19-510 & 20-249

draft: mmf/March 15, 1999

HFD-180/M.Folkendt

final: 3/17/99

filename: 19510-SLR026-LBLreview.DOC

CSO LABELING REVIEW

NDA 19-462/S-027 NDA 19-527/S-020 NDA 19-510/S-026 NDA 20-249/S-009 NDA 20-752/S-002-

MAR 1 2 1999

Merck Research Laboratories Attention: Michelle W. Kloss, Ph.D. P.O. Box 4, BLA-20 West Point, PA 19486-0004

Dear Dr. Kloss:

Please refer to your supplemental new drug applications for Pepcid® (famotidine) Tablets, for Oral Suspension, Injection, Injection Pre-Mixed, and Pepcid RPD™ (famotidine) Orally Disintegrating Tablets.

Regarding your request for copies of the adverse event reports received by the Agency suggesting cross-sensitivity within the class of H₂-receptor antagonist, your request should be directed to the new drug applications (NDA) for non-prescription Pepcid AC® at the following address:

Food and Drug Administration Center for Drug Evaluation and Research Division of Over-The-Counter Drug Products, HFD-560 9201 Corporate Blvd. Rockville, MD 20850

If you have any questions, contact Michael Folkendt, Project Manager, at (301) 827-1602.

Sincerely,

/S/ 5 3-12-99

Lilia Talarico, M.D.

Director

Division of Gastrointestinal and

Coagulation Drug Products

Office of Drug Evaluation III

Center for Drug Evaluation and Research